

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF TELECOMMUNICATIONS AND ENERGY

Investigation by the Department of
Telecommunications and Energy on its own
Motion pursuant to G.L. c. 159, §§ 12 and 16,
into the collocation security policies of Verizon
New England Inc. d/b/a Verizon Massachusetts

DTE 02-8

**PANEL REBUTTAL TESTIMONY OF
AT&T COMMUNICATIONS OF NEW ENGLAND, INC.**

**Michael Paszynsky
Anthony Fea
Douglas Gorham
E. Christopher Nurse**

PUBLIC VERSION

May 15, 2002

1 **I. QUALIFICATIONS AND STATEMENT OF PURPOSE**

2
3 **Q: PLEASE STATE THE NAME AND BUSINESS ADDRESS OF THE INDIVIDUAL**
4 **PANEL MEMBERS TESTIFYING ON BEHALF OF AT&T**
5 **COMMUNICATIONS OF NEW ENGLAND, INC. (“AT&T”).**
6

7 **A:** The members of the panel are Michael Paszynsky, Anthony Fea, Douglas Gorham and
8 Christopher Nurse. Mr. Paszynsky’s business address is 55 Corporate Drive,
9 Bridgewater, New Jersey. Mr. Fea’s business address is 429 Ridge Road, Dayton, New
10 Jersey. Mr. Gorham’s business address is 19 Brigham Street, Marlborough,
11 Massachusetts. Mr. Nurse’s business address is 3033 Chain Bridge Road, Oakton,
12 Virginia.

13
14 **Q: PLEASE STATE THE CURRENT POSITION, EDUCATIONAL BACKGROUND**
15 **AND PROFESSIONAL EXPERIENCE OF EACH PANEL MEMBER.**
16

17 **A: Mr. Michael Paszynsky** is the Director of Corporate Security & Claims for AT&T, the
18 highest-ranking security professional in the corporation. He has been with AT&T
19 Corporate Security for some 25 years in various positions, one of them being the Physical
20 Security Staff Manager for the entire corporation. Amongst his current responsibilities,
21 which include emergency planning and crisis management, he also teaches physical
22 security at AT&T’s in-house courses, such as Basic Investigator Training (BITS). Mr.
23 Paszynsky is a graduate of the John Jay College of Criminal Justice (City University of
24 New York) with a B.A. in Criminal Justice. He is also a Certified Protection Professional
25 (CPP). Prior to joining AT&T, Mr. Paszynsky developed extensive experience with
26 complex security designs as a Criminal Investigation Division (CID) Special Agent in the
27 U.S. Army Reserve. He graduated from the Army’s CID Academy and its Physical
28 Security School. Mr. Paszynsky is currently a Board of Directors Nominee for the

1 International Security Management Association (ISMA) and a member in good standing
2 of the American Society for Industrial Security (ASIS), National Association of Certified
3 Fraud Examiners (NACFE), and the International Association of Chiefs of Police
4 (IACP).

5 **Mr. Anthony Fea** is a Division Manager with AT&T Local Network Services,
6 the organization within AT&T Corp. that provides local service (either entirely or
7 partially through the use of AT&T's own facilities) to AT&T business customers of all
8 sizes. Among other responsibilities, Mr. Fea oversees the planning of AT&T's local
9 optical network in the northeastern part of the United States. Mr. Fea also assists in the
10 development of a capital investment plan which optimizes the use of limited capital
11 dollars, while at the same time appropriately controlling expenses and allowing for a
12 return on the company's investment. Mr. Fea is a 1986 graduate of Stevens Institute of
13 Technology, with a B.S. in Electrical Engineering. Since obtaining his degree, Mr. Fea
14 has worked at a number of telecommunications firms including Bell Atlantic (now
15 Verizon), Telecordia Technologies (BellCore), and most recently TCG and AT&T. Mr.
16 Fea has previously testified before the Department in DTE 01-31, the Department's
17 review of Verizon's proposal for Alternative Regulation.

18 **Mr. Douglas Gorham** is the Operations Manager with AT&T Local Network
19 Services ("ALNS") for Massachusetts, New Hampshire and Maine. Part of his duties in
20 this role is to coordinate, maintain and ensure AT&T operating standards at ALNS
21 facilities. Mr. Gorham has been involved with the design, build out and operational
22 procedures of nodes and collocation cages since 1993. He is familiar with many
23 Verizon-Massachusetts Central Offices where AT&T has collocation arrangements, and

1 the current Verizon procedures CLECs must follow to gain access to their collocated
2 facilities. Mr. Gorham received an A.S. in Electrical Engineering and a B.S. in
3 Electronics Engineering from Wentworth Institute of Technology. He has been in the
4 telecommunications industry for the last 9 years with Teleport and AT&T.

5 **Mr. E. Christopher Nurse** is District Manager of Government Affairs for AT&T
6 Corp. He received his B.A. in Economics from the University of Massachusetts at
7 Amherst and a Masters in Business Administration from Southern New Hampshire
8 University in Manchester, New Hampshire. Prior to the promotion to his current
9 position, Mr. Nurse was Manager of Government Affairs, and Manager of Regulatory
10 and External Affairs for AT&T Local Services. Before joining AT&T, Mr. Nurse was
11 employed in the same capacity by Teleport Communications Group Inc. Mr. Nurse was
12 also a Telecommunications Analyst with the New Hampshire Public Utilities
13 Commission from 1991 to 1997. Assigned to the Engineering Department, he was a lead
14 analyst or a contributing analyst to nearly all telecommunications dockets before that
15 Commission. In addition to dealing extensively with collocation matters, Mr. Nurse has
16 extensive experience in metrics and remedies and is a regular member of the Carrier
17 Working Group under the auspices of the New York Public Service Commission.

18
19 **Q: PLEASE STATE THE PURPOSE OF YOUR TESTIMONY.**

20 **A:** The purpose of this testimony is to address the issues that the Department raised in the
21 notice it issued opening this investigation. In its notice, the Department stated:

22 This investigation will determine whether Verizon's security policies meet the
23 statutory standard for "just, reasonable, safe, adequate and proper regulations and
24 practices." G.L. c. 159, § 16. Specifically, this investigation will include, but not
25 be limited to, an examination of the following issues: (1) the extent and nature of
26 appropriate access by personnel of other carriers to Verizon's central offices and
27 other facilities for accessing collocation sites; (2) whether cageless collocation
28 arrangements remain an acceptable security risk; (3) the adequacy of security

1 measures implemented in Verizon's central offices and other facilities, focusing
2 on preventive, rather than "after-the-fact," measures; and (4) any other related
3 security issues.

4 *Notice of Investigation and Public Hearing* (January 24, 2002) ("Notice"), at 1.

5
6 **II. METHOD FOR ADDRESSING ISSUES RAISED BY THE DEPARTMENT IN**
7 **ITS NOTICE.**

8
9 **Q. HOW SHOULD THE DEPARTMENT APPROACH THE PROBLEM OF**
10 **DETERMINING WHAT TYPES OF COLLOCATION REGULATIONS AND**
11 **PRACTICES ARE "JUST, REASONABLE, SAFE, ADEQUATE AND PROPER"**
12 **IN LIGHT OF SECURITY ISSUES THAT HAVE ARISEN SINCE THE**
13 **DEPARTMENT ESTABLISHED THE EXISTING COLLOCATION**
14 **REGULATIONS AND PRACTICES?**

15 **A.** AT&T is aware that the Department has previously ruled on and required Verizon to
16 implement many of the existing collocation arrangements. AT&T understands that, when
17 the Department made those rulings, it took into account all appropriate operational,
18 competitive, and security concerns then known and understood, as well as the rules of the
19 Federal Communications Commission governing collocation arrangements. AT&T also
20 understands that the Department wants to revisit those rulings to determine whether there
21 is a need to change what has previously been determined to be appropriate collocation
22 security arrangements in light of security issues that have since arisen. The issues that
23 the Department has raised in this proceeding, therefore, are limited: What has changed
24 since the Department's prior rulings? What security issues need to be addressed that
25 were not addressed in the Department's prior rulings? And, most importantly, how much
26 security is enough security; that is, what criteria should we use to determine how much
27 security is enough security?

1 **Q. WHAT DO YOU MEAN BY “HOW MUCH SECURITY IS ENOUGH**
2 **SECURITY”?**

3 **A.** It is, of course, always possible to increase the level of security. However, increasing
4 levels of security come with increasing costs -- both visible costs, such as new
5 construction and equipment costs, and less visible costs, such as operational
6 inefficiencies and impairment of competition.

7 Any security plan must recognize the expense and inconvenience associated with
8 certain measures. After analyzing the risks facing telecommunications facilities in
9 Massachusetts, it is necessary to determine how much inconvenience is warranted and
10 what level of cost is appropriate. It is necessary, therefore, to determine the point at
11 which increasingly costly security measures provide such a small improvement to actual
12 security, that it is no longer worth the cost. It is simply not possible to decide whether
13 there is sufficient “security” in the abstract, because we can never achieve complete and
14 perfect security.

15 Any determination of the appropriate type of collocation arrangements for
16 achieving “adequate” security must necessarily balance the cost of changing the existing
17 collocation arrangements (which were determined to be optimal prior to concerns raised
18 by the September 11th terrorist attacks) against the benefits such increased security
19 measures produce. Moreover, where increased security can be achieved through
20 measures that do not involve significant changes to previously determined collocation
21 arrangements and that do not interfere with important policy goals -- such as the
22 development of competition -- those measures should be used instead of costly, anti-
23 competitive alternatives.

1 When analyzing what, if any, new security measures are necessary, the
2 Department should be mindful of the importance of proper security *procedures*. Experts
3 estimate that upwards of 90% of all security failures are a result of procedural shortfalls
4 rather than a failure or lack of security *devices*. It is AT&T's position that, in general,
5 Verizon's central offices are currently equipped with physical security devices which are
6 more than adequate to do the job. Assuming that improvements to central office security
7 are found necessary, the Department's focus should be upon improving Verizon's
8 policies and procedures while using the security technology already in the field. This is
9 how real improvements in central office security are likely to be made.

10 It is important for the Department to remember that all security is based upon the
11 "3-P Principle", i.e., **People**, **Physical** security hardware/devices, and **Policies** and
12 procedures. Removing one of these elements results in a break in the security loop,
13 creating the potential for security failures. The Department should train its focus upon
14 the third element of the 3-P Principle -- policies and procedures -- in this proceeding.

15
16 **Q. WHAT INFORMATION DOES THE DEPARTMENT NEED, THEN, TO**
17 **DETERMINE WHETHER EXISTING COLLOCATION SECURITY**
18 **ARRANGEMENTS ARE APPROPRIATE?**

19 **A.** The Department needs to know what new risks are posed by collocation arrangements
20 that were not apparent when it ordered its existing collocation rules. Understanding the
21 gravity of these new risks requires measuring the likelihood of an adverse event and the
22 magnitude and type of consequences that would result from such an event. Once the
23 Department has some sense of the scale of the risks, it will need to investigate a range of
24 security measures before it can determine whether changes in collocation rules are the
25 least cost means of addressing the identified risk. Finally, since costs associated with any

1 change in collocation rules are ultimately borne by Massachusetts consumers, the
2 Department will need information regarding the value of the security benefit before it can
3 determine whether the costs associated with changing the collocation arrangements are
4 warranted.

5
6 **Q. IS AT&T ABLE TO PROVIDE THE INFORMATION THAT THE**
7 **DEPARTMENT REQUIRES?**

8 **A.** AT&T can provide some of the information. Some of the information that the
9 Department needs, however, is information that Verizon ought to have, but has yet to
10 provide to the Department.

11 Specifically, AT&T can provide information relating to the assessment of security
12 risks. It can also describe the most cost effective means of addressing those risks in its
13 experience. AT&T, however, cannot provide detailed information regarding the cost of
14 alternative approaches to security that Verizon has proposed (*i.e.*, the costs of the
15 substantial changes in collocation arrangements that Verizon proposes). That
16 information needs to come from a couple of different sources. AT&T can provide
17 information regarding the costly disruptions to AT&T's operations that would be caused
18 by the collocation rule changes proposed by Verizon. That information is presented later
19 in this testimony. The actual costs of construction, relocation of equipment, and
20 alteration of physical plant that is called for by Verizon's proposal will need to come
21 from Verizon. Based on my review of Verizon's testimony and discovery responses, it
22 does not appear that Verizon has made any effort to estimate those costs.

1 **Q. WILL YOU ALSO BE COMMENTING ON VERIZON’S TESTIMONY IN THIS**
2 **PROCEEDING?**

3 **A.** Yes. As part of its presentation of identifying risks and describing AT&T’s experience in
4 addressing those risks, AT&T will highlight the problems with Verizon’s proposal.
5 AT&T will also show that the risks that Verizon has identified are nothing new and that,
6 in AT&T’s experience, they can be addressed with far less costly measures than the
7 changes in collocation rules that Verizon proposes.

8 **III. RISK ASSESSMENT.**

9 **Q. WHAT NEW RISKS ARE PRESENTED THAT THE DEPARTMENT DID NOT**
10 **CONSIDER WHEN IT DETERMINED THE EXISTING COLLOCATION**
11 **RULES.**

12 **A.** The new types of risks that security experts are now considering are unlikely to be the
13 types of risks that collocation rules for telecommunications central offices can or should
14 address. While an attack upon the physical integrity of telecommunications facilities is a
15 security concern that should never be overlooked, the likelihood of such an attack is
16 small in comparison to the likelihood of a remotely directed electronic or cyber attack.
17 Such remotely directed attacks would accomplish the same damage to the
18 telecommunications infrastructure as a physical attack – namely the disablement of
19 central office equipment. Moreover, such remote attacks could be attempted by terrorist
20 elements in a much more clandestine fashion, providing a greater opportunity for such
21 elements to avoid capture by law enforcement.

22 Furthermore, terrorist organizations plotting a physical attack like those carried
23 out on September 11th are more likely to focus their attention on other public utility
24 systems such as water or energy facilities. Physical attacks upon such facilities would,
25 generally speaking, have more profound and deadly effects upon the population, making

1 them a more attractive option for terrorists like those responsible for the events of
2 September 11th. The destruction of a telephone central office would not have the far-
3 reaching effect that an attack upon a nuclear power plant or dam system would, for
4 instance.

5 To the extent that this proceeding has been initiated to examine risks not
6 previously addressed when the existing collocation rules were put in place, there is little
7 that an adjustment to these rules could accomplish. The new security risks that have
8 materialized of late, namely organized terrorist threats, cannot be properly addressed
9 through a change in collocation policy. AT&T understands, however, that the
10 Department may want to reexamine collocation arrangements in any event to address
11 already recognized risks.

12
13 **Q. WHAT ARE THE TYPICAL TYPES OF RISKS THAT ARE RAISED IN THE**
14 **CONTEXT OF COLLOCATION ARRANGEMENTS?**

15 **A.** Verizon's testimony provides examples of certain security breaches that have occurred
16 throughout the country. Although Verizon indicates that there have been occasional
17 incidents across the country, including former GTE territory, Verizon's testimony
18 provides absolutely no verifiable evidence of the extent of such occurrences. Thus, while
19 Verizon has identified certain isolated incidents, it provides no data regarding the extent
20 of the risk and therefore no evidence regarding the value or benefit that would be
21 obtained by implementing measures needed to prevent such risks.

22 Verizon lists the following alleged incidents:

23 ?? Unauthorized entry into central offices

24 ?? Theft and vandalism of CLEC equipment resulting from unauthorized access to a
25 CLEC's cage

- 1 ?? Theft and vandalism of Verizon equipment in secured and unsecured areas of the
2 central office
- 3 ?? Cables cut on frames
- 4 ?? CLEC entry into central offices without an authorized identification badge or
5 electronic access card
- 6 ?? CLEC entry into central offices with unauthorized use of another's identification
7 badge or electronic access card
- 8 ?? Central Office doors propped open or locks taped
- 9 ?? Acts of vandalism such as broken locks on doors or collocation cages, card
10 readers destroyed, or power systems disabled
- 11 ?? Unauthorized CLEC testing on Verizon's side of the equipment
- 12 ?? Claims of drug use on the central office premises
- 13 ?? Other improper conduct (e.g., (1) CLEC entry into Verizon's BDFB causing a
14 service outage in a remote switch, interrupting service to 9,000 customers and (2)
15 breaking into locked power rooms.)

16 While the identification of certain incidents is of some use in analyzing proper
17 security procedures, without data concerning the frequency of such events in
18 Massachusetts, it is impossible to measure the value of Verizon's proposed additional
19 security measures. And, certainly, several of the alleged incident types Verizon cites,
20 such as drug use and CO doors propped open, are strongly suggestive of acts committed
21 by those who have legitimate access to the premises. How then does Verizon exclude its
22 own employees from suspicion?

1 **IV. SECURITY MEASURES FOR THE RISKS IDENTIFIED.**

2
3 **Q. BASED ON AT&T'S EXPERIENCE, PLEASE DESCRIBE THE SECURITY**
4 **MEASURES THAT ARE TYPICALLY USED TO CONTROL THE RISKS**
5 **IDENTIFIED.**

6 **A.** Although AT&T is not required to provide collocation space to other carriers, AT&T has
7 space license arrangements in some of its central offices that result in the placement of
8 third-party facilities in those offices. AT&T has large business and government
9 customers as well as CLECs and ILECs, including Verizon, maintaining equipment in its
10 buildings. AT&T previously provided to the DTE a summary of its security practices
11 and it regards that document as being confidential. However, as a general proposition,
12 physical access to AT&T's switching centers and other network facilities is strictly
13 monitored and managed. AT&T has well-developed procedure for controlling access to
14 its buildings, including many of the same security measures that Verizon states it uses.

15
16 **Q. WHAT ARE THE SECURITY MEASURES THAT VERIZON MENTIONED IN**
17 **ITS TESTIMONY?**

18 **A.** According to pp. 16-17 of Verizon's testimony, Verizon currently uses the following
19 security measures:

- 20 1. non-Verizon employee collocation identification cards
- 21 2. electronic card reader access systems
- 22 3. key controlled access systems
- 23 4. directional signage and floor markings (e.g., floor tape)
- 24 5. access through guarded entries.
- 25 6. security cameras (*i.e.*, Closed Circuit Television ("CCTV")) in COs with cageless
- 26 collocation open environment ("CCOE")

27 Each measure is described in Attachment 1 to that testimony.

1 **Q. IN AT&T'S EXPERIENCE, DO THESE TYPES OF SECURITY MEASURES**
2 **ADDRESS THE RISKS THAT VERIZON HAS IDENTIFIED?**

3 **A.** When used in combination with AT&T's other practices, these measures are more than
4 adequate to reasonably ensure security.
5

6 **Q. ARE YOU AWARE THAT VERIZON CLAIMS THAT THE SECURITY**
7 **MEASURES DESCRIBED ON PP. 16-17 OF VERIZON'S TESTIMONY THAT**
8 **BOTH AT&T AND VERIZON USE CAN'T POSSIBLY SOLVE THE**
9 **PROBLEMS IT CITES?**

10 **A.** Yes. On pages 17-21 of Verizon's testimony, Verizon argues that these security
11 measures are not "preventative" and then provides superficial reasons why cameras and
12 security access cards *each standing alone* will always be inadequate. It doesn't give any
13 reasons why its other security measures will not work, and more importantly, it doesn't
14 give any reason why all the security measures employed in combination cannot work.

15 In addition, on page 20, Verizon claims, in footnote 18, that "breaches [of its
16 security protocols for using access cards] often go undetected and unpunished because
17 Verizon does not have the same recourse against CLEC violators as it does with its own
18 employees or vendors (*i.e.*, Verizon cannot discipline a CLEC violator or terminate
19 his/her employment.)" Clearly, optimal security requires communication of alleged
20 security breaches between resident companies' Security Organizations so that corrective
21 action, including discipline, can be taken. Each company can certainly discipline its own
22 employees following investigation of a breach.
23
24
25
26

1 **Q. BASED ON YOUR EXPERIENCE WITH THE SECURITY MEASURES THAT**
2 **VERIZON USES, DO YOU AGREE THAT THE “INADEQUACIES” OF THE**
3 **SECURITY MEASURES THAT VERIZON DESCRIBES MEAN THAT ITS**
4 **CURRENT SECURITY MEASURES CANNOT ADDRESS THE PROBLEMS IT**
5 **HAS CITED?**

6 A. Our answer is an emphatic “no.”

7 First of all, as stated earlier, AT&T uses these same security measures in its own
8 facilities. There are other carriers and customers located in our facilities, and we find that
9 these security measures work well when properly implemented, properly administered,
10 and used in combination.

11 Second, the reasons that Verizon gives for the alleged inadequacies of its current
12 measures are not reasons that any reasonable security expert would use for rejecting a
13 security measure in favor of far more expensive and impractical policy:

- 14 a. The claim that current measures are not preventative is not accurate. Every
15 measure that makes the undesirable behavior to which it is targeted less likely is
16 preventative. It’s a matter of common sense that the presence of cameras, for
17 example, will deter some portion of the undesirable conduct. Indeed, a common
18 security measure is the installation of “dummy” cameras in order to make people
19 think they are being watched. Or take, as another example, an access card reader.
20 When individuals know that their presence can be traced back to a central office
21 at a particular time, such knowledge acts as a deterrent to undesirable content.
- 22 b. The claim that cameras do not capture every angle and are not “real time” is not a
23 reason to implement alternative, draconian measures. Cameras fitted with motion
24 sensors, can, in fact, be set-up for real-time operation and viewing. Moreover, the
25 ability of cameras to capture “every angle” is very much a function of how the
26 cameras are positioned and how many cameras are deployed. The choice between

1 adding a few more cameras, on the one hand, and implementing costly and
2 impractical collocation rules on the other should be driven by an evaluation of
3 costs and benefits. Similarly, Verizon's claim that its current cameras are not
4 "real time" is not, by itself, a justification for costly and cumbersome alternative
5 measures. The more common sense approach is to address the specific concern.
6 Many options exist in the case of security cameras. These can range from full
7 motion video (15 frames per second) with motion sensors to the "dummy"
8 cameras mentioned earlier. Excluding all carriers from their equipment or
9 embarking upon the wholesale construction of separate entrances is not justified
10 simply because Verizon does not currently use cameras effectively to monitor and
11 prevent undesirable conduct.

- 12 c. The claim that access cards only provide a witness or suspect after the fact and do
13 not show when an individual leaves is not accurate. As mentioned earlier, access
14 cards can be an effective deterrent. Moreover, access systems come with various
15 options. While some require swiping on entrance only, others require card
16 swiping on entrance *and exit*. This is a feature know as "anti-passback". Some
17 allow activation for certain periods of time based on the individual card. There
18 are also high technology biometric devices that require authentication based on
19 fingerprints or retinal scans. On the low end of the scale are key and/or
20 combination locks. Again, the decision as to what type of access system to use
21 needs to be based on the type of security risks and the potential impact of an
22 incident. Furthermore, this is one piece of the overall security plan and would
23 depend on the other pieces of the solution, such as, use of another system used

1 for logging in and out of a building; use of remotely operated doors in connection
2 with a voice and video link; the number of employees and/or security guards on
3 site, etc. Once again, however, it is important for the Department to remember
4 that physical security devices are but one of three requisite elements to achieve
5 true security. Competent people and appropriate security policies are more
6 critical to providing effective security than any particular hardware.

7 d. Finally, the claim that breaches of security protocols by CLEC employees go
8 unpunished because Verizon does not have the same recourse against CLEC
9 violators as it does with its own employees or vendors does not make sense. Part
10 of a successful security plan requires appropriate training for each person
11 requiring access. This includes familiarization with the proper procedures to
12 follow, as well as the consequences of not following those procedures.
13 Consequences can range from revoking an individual's access authorization to the
14 pressing of criminal trespass charges. AT&T establishes compliance with its
15 security protocols as a condition of entry for every person requiring access to an
16 AT&T central office, whether the individual is an AT&T employee or an
17 employee of a vendor, customer, CLEC, or ILEC. There is certainly no reason
18 why Verizon cannot do the same. Indeed, Verizon's current rules permit it to bar
19 offending CLEC personnel from central offices through the deactivation or
20 recovery of access key cards.

21 e. Verizon has a code of conduct similar to AT&T's. Verizon's employees are
22 required to report problems under their own policies. If they are not complying
23 with those policies, there is nothing AT&T and other CLECs can do. Education is

1 a bona-fide key here. Formal in-person training, combined with reinforcement
2 tools such as the posting of notices in all central offices where collocation takes
3 place, is a good idea.

4
5 Third, Verizon does not explain precisely how it implements its current security
6 measures. If these measures are implemented properly, they will protect against the
7 problems cited by Verizon.

8 **V. COSTS OF THE EXTRAORDINARY COLLOCATION CHANGES PROPOSED**
9 **BY VERIZON.**

10 **Q. WHAT ARE THE COSTS ASSOCIATED WITH THE COLLOCATION RULE**
11 **CHANGES PROPOSED BY VERIZON?**

12 **A.** As mentioned at the outset, there are two general types of costs that arise from making
13 the collocation rule changes proposed by Verizon. One is the visible costs of
14 construction and equipment relocation. Until Verizon provides the details associated
15 with its proposal it is not possible to estimate those costs. The other costs are the costs of
16 network operation disruption, the detrimental impact on competition, and the increased
17 need for regulatory oversight that results from Verizon's proposal. Those costs are
18 addressed below. Of course there is also the opportunity cost representing the better
19 alternative use of increasingly scarce resources.

20
21 **Q. WHAT TYPES OF EQUIPMENT DOES AT&T PLACE IN COLLOCATION**
22 **ARRANGEMENTS IN VERIZON CENTRAL OFFICES AND WHAT TYPES OF**
23 **SERVICES DOES AT&T SEEK TO PROVIDE WITH THESE FACILITIES?**
24

25 **A.** Collocation is a critical part of AT&T's strategy of becoming a facilities-based provider
26 of local business and residential services. Without physical collocation, AT&T would
27 not be able to cost effectively operate and maintain the critical elements required in the

1 “last mile” connection to the customer. AT&T generally places SONET transport and
2 DSL/DLC access equipment in a collocation cage to hand off a variety of DS-0 to OC-x
3 based services that are connected to the network of an incumbent local exchange
4 company (ILEC) such as Verizon to meet the service demands of our customers. In
5 addition, infrastructure elements required to support and maintain this equipment are
6 installed in ILEC collocation cages. These elements typically consist of racking, power,
7 cross-connect panels, etc. AT&T generally tries to provision service across AT&T
8 owned and operated facilities where it is technically and economically feasible. In
9 addition, AT&T generally places its own equipment in collocation arrangements in ILEC
10 central offices. Our objective is to provide end-to-end local and long-distance services to
11 our customers over as much of our own network as technically feasible.

12
13 **Q. WHY DOES AT&T CHOOSE PHYSICAL OVER VIRTUAL COLLOCATION?**

14 **A.** Physical collocation is AT&T’s generally preferred method of interconnection with an
15 ILEC for a variety of reasons. First, physical collocation allows AT&T to control its own
16 network facilities, thereby allowing AT&T flexibility in choosing how to manage and
17 maintain its physical plant within the collocation site. In addition, physical collocation
18 minimizes the inherent delays associated with virtual collocation since it typically does
19 not require a collocation application every time network growth and rearrangements are
20 required. Finally, it eliminates potential conflicts that may arise when an ILEC and
21 AT&T are simultaneously trying to install or restore service in the same place, as was the
22 case at the Verizon Manhattan West Street Central Office after the September 11th
23 terrorist attack.

24 Other reasons include:

1. The ability to provide our customers with a higher quality of service;
2. Control of provisioning intervals and mean time to repair (MTTR);
3. The ability to reduce long lead times regarding pre-provisioning items such as space, power and cabling;
4. Eliminating the need to maintain equipment spares and cabinets at every ILEC virtual collocation;
5. Eliminating the need to pay for new ILEC technician training every time an already trained technician is moved to different assignment;
6. Eliminating collocation application delays and issues that arise as a result of application process;
7. Eliminating potential for billing errors associated with collocation applications.

Q. VERIZON HAS PROPOSED THAT IN CERTAIN “HIGH RISK” CENTRAL OFFICES, CLECS SHOULD BE REQUIRED TO CONVERT THEIR PHYSICAL COLLOCATION ARRANGEMENTS INTO VIRTUAL ARRANGEMENTS. DOES AT&T AGREE WITH THIS PROPOSAL?

A. No. First, we are advised by counsel that Verizon’s proposal directly violates both the 1996 Telecommunications Act, as well as FCC rules implementing that law which required ILECs such as Verizon to provide physical collocation, except where precluded by space limitations or technical considerations. Second, Verizon’s proposal is based on erroneous assumptions and a flawed conception of “high risk.” Finally, the anti-competitive implications of the proposal are severe, and the changes that would be needed to implement Verizon’s proposal would be grossly disproportionate to the of claimed risk.

This testimony has already discussed the nature of the most likely potential threats to the telecommunications network, the likelihood of physical attack scenarios, and the types of appropriate security measures that are already in place to guard against them. The primary terrorist threat facing telecommunications facilities comes from cyber or

1 electronic sabotage. Given this, it makes little sense to categorize certain central offices
2 as facing a “high risk” of physical attack.

3 Furthermore, the proposal to have competitive carriers convert their physical
4 collocations into virtual arrangements presumes that CLEC technicians pose a threat
5 sufficient to justify the anti-competitive and costly implications of such a conversion.
6 However, CLEC personnel are no more likely than Verizon personnel to engage in
7 intentional acts of vandalism, damaging network facilities. Thus, Verizon’s proposal
8 amounts to unreasonable discrimination against CLEC personnel.
9

10 **Q. YOU STATE THAT THE VERIZON PROPOSAL TO CONVERT PHYSICAL**
11 **ARRANGEMENTS TO VIRTUAL ARRANGEMENTS WOULD VIOLATE THE**
12 **TELECOMMUNICATIONS ACT AND EXISTING FCC RULES. PLEASE**
13 **EXPLAIN.**

14 **A.** We are advised by counsel that the 1996 Telecommunications Act and related FCC rules
15 imposes certain obligations upon ILECs such as Verizon with respect to collocation.
16 Specifically, Section 251(c)(6) of the 1996 Act requires physical collocation “at the
17 premise of the local exchange carrier.” Section 251(c)(6) of the Act permits only two
18 exceptions to its physical collocation requirement – where an ILEC “demonstrates to the
19 state commission that physical collocation is not practical for technical reasons or
20 because of space limitations.” The FCC’s implementing regulations repeat the Act’s
21 technical and space limitation language. *See* 47 C.F.R. 51.323(l). Thus, technical or
22 space limitations are the sole reasons an ILEC can refuse to provide physical collocation
23 in a particular location.
24
25

1 **Q. SHOULD PHYSICAL COLLOCATION TAKE INTO ACCOUNT SECURITY**
2 **CONCERNS?**

3 **A.** We are advised by counsel that the FCC’s rules do permit an ILEC to implement
4 *reasonable* security arrangements to protect its equipment, but the ILEC may not use
5 security risks to circumvent their statutory requirement to provide physical collocation.
6 As stated above, only technical or space constraints may prevent a collocating carrier
7 from entering into a physical collocation arrangement with the ILEC. Indeed, the FCC’s
8 narrowly tailored regulations make this clear. These regulations prohibit an ILEC from
9 implementing security arrangements that are more stringent than those used by the ILEC
10 for their own employees or contractors. The rules also expressly state that ILECs must
11 allow collocating carriers access to their equipment “24 hours a day, seven days a week,
12 without requiring either a security escort of any kind or delaying a competitor’s
13 employees’ entry into the incumbent LEC’s premises.” 47 C.F.R. § 51.323(i). The FCC
14 also gives some examples of “reasonable security arrangements” – installing security
15 cameras, requiring competitive LEC personnel to use badges, or undergo the same level
16 of security training as the ILECs’ own employees or contractors. 47 C.F.R. § 51.323(i).
17 Verizon’s proposal in this proceeding is a far cry from what the FCC considers to be
18 *reasonable* security measures.

19 Verizon’s unsubstantiated concerns regarding security risks associated with
20 certain central offices and the associated need to preclude physical interconnection at
21 those locations clearly do not fall within either the technical feasibility or space limitation
22 standards established by the Act, the FCC’s implementing rules, or the FCC’s narrowly
23 tailored security standards. Although a state may adopt its own collocation
24 requirements, those requirements must be consistent with the Act and FCC regulations.

1 Since Verizon's proposal relating to converting physical collocation to virtual collocation
2 is not consistent with the Act or the FCC regulations, the Department may not adopt it.
3

4 **Q. WHY IS VERIZON'S PROPOSAL TO CONVERT PHYSICAL COLLOCATIONS**
5 **INTO VIRTUAL ARRANGEMENTS ANTI-COMPETITIVE FROM A BUSINESS**
6 **PERSPECTIVE?**

7 **A.** As Verizon has explained, virtual collocation is an arrangement in which "the CLEC
8 leases its equipment to Verizon-MA to install, maintain, upgrade, and repair." In the
9 most basic sense, virtual collocation is distinguished from physical collocation in that
10 there is no locked cage surrounding and separating CLEC facilities from the other
11 facilities and equipment in the central office. As Verizon states, "Unlike physical
12 collocation, a virtual collocation arrangement does not require Verizon-MA to assign a
13 portion of the floor space in the CO to the collocated carrier for its exclusive use to
14 install, operate, and maintain its own equipment."

15 It is both inconsistent and unfair for Verizon to suggest that their central office
16 equipment should be completely sealed off from any possibility of access by CLEC
17 technicians, while at the same time, arguing that CLECs should be forced to turn over all
18 access to, and responsibility for, their collocated facilities to Verizon. Indeed, a primary
19 reason that AT&T incurs the significant expense associated with physical collocation
20 cages is to be able to control access to our facilities and to provide additional security for
21 our equipment. As discussed above, there is no evidence or reason to believe that
22 Verizon personnel are any more, or less, trustworthy than CLEC personnel. It is
23 inconsistent for Verizon to expect CLECs to expose their facilities to a level of risk that
24 Verizon itself is unwilling to accept.

1 Additionally, AT&T purchases costly physical collocation arrangements in order
2 to maintain control over the installation and maintenance of our collocated facilities. If
3 AT&T has a new customer or immediate need for additional collocated equipment, it has
4 the ability to expedite the installation of equipment to quickly meet that demand.
5 Similarly, if there is a problem with our collocated equipment, we can ensure that it is
6 immediately repaired. In this way, AT&T, and not Verizon, maintains control over our
7 service quality. The competitive importance of this cannot be overstated. This control
8 over our equipment, our timely delivery of service, and our service quality would be lost
9 if the Department required AT&T to convert its physical collocation arrangements into
10 virtual collocation arrangements.

11
12 **Q. ARE THERE OTHER COMPETITIVE ISSUES PRESENTED BY VERIZON'S**
13 **PROPOSAL TO FORCE CLECS TO USE VIRTUAL COLLOCATION?**

14 **A.** Yes. As suggested above, a whole new array of ILEC performance issues come into play
15 under Verizon's proposal for mandatory virtual collocation in certain COs. Under this
16 proposal, in the event of an attack or act of vandalism that would affect both Verizon and
17 CLEC facilities and customers, there are no guarantees that CLEC customers will be
18 restored as quickly as Verizon's. Indeed, Verizon would have every incentive to restore
19 the services of its own customers before turning to the repair of CLEC facilities. In the
20 event of a service disruption, even something as simple as Verizon's familiarity with its
21 own equipment and facilities, and lack of familiarity with CLEC facilities, would dictate
22 that they, would be able to work or, would work on their equipment first to restore the
23 largest number of customers in the shortest amount of time. The pool of highly skilled
24 technicians available to expeditiously restore service would be reduced under Verizon

1 proposal which would exclude otherwise available CLEC technicians. The interests of
2 smaller competitors and their end users could be lost in this environment.

3 In a more routine but equally important context, requiring CLECs to use virtual
4 arrangements would raise the same types of “Type 2” provisioning and maintenance
5 issues and problems that the Department is currently investigating with respect to
6 Verizon’s special access performance. CLECs would again be at the mercy of Verizon’s
7 ability and willingness to meet yet to be established intervals for the installation and
8 maintenance of collocated CLEC equipment. We are advised by counsel that the FCC’s
9 rules require that an ILEC that provides virtual collocation must, at a minimum, install,
10 maintain and repair collocated equipment within the same time period and with failure
11 rates that are no greater than those that apply to the performance of similar functions for
12 comparable equipment of the ILEC itself. *See* 47 C.F.R. 51.323(e). The only way the
13 Department could ensure that Verizon complied with this rule would be to create an
14 additional set of performance metrics, penalties, and reporting requirements – resulting in
15 a significant and unnecessary regulatory and administrative burden for the Department
16 and telecommunications providers. Even then, AT&T would have no assurance that
17 Verizon’s performance would meet the service quality standards that we provide our
18 retail customers.

19
20 **Q. WHAT IMPACT DOES VERIZON’S PROPOSAL FOR MANDATORY**
21 **VIRTUAL COLLOCATION HAVE ON THE DEVELOPMENT OF**
22 **“FACILITIES-BASED” COMPETITION?**

23 **A.** Verizon’s proposal would significantly undermine the development of facilities-based
24 competition in areas of Massachusetts that are served by central offices that Verizon
25 would designate as being of “high risk.” AT&T notes that the Department has been a

1 long-time proponent of local competition, and in particular, of facilities-based
2 competition. A policy that requires facilities-based carriers to cede the installation and
3 maintenance of their equipment to Verizon would significantly undercut the entire notion
4 of what it means to be “facilities-based.” As stated above, CLECs would be unable to
5 distinguish themselves from the ILEC by providing their customers with superior
6 installation, maintenance or repair operations or services. Instead, they would be limited
7 to those standards or service intervals that Verizon provides for its own customers.
8 Moreover, requiring mandatory virtual collocation at certain sites would also create a
9 disincentive for CLECs to purchase their own facilities at those sites. CLECs certainly
10 would not build their own facilities at such sites only to turn them over to Verizon’s
11 control.

12
13 **Q. HOW DOES VERIZON’S PROPOSAL IMPACT CLEC OPERATIONS FROM**
14 **THE PERSPECTIVE OF NETWORK PLANNING?**

15 **A.** AT&T’s network planning and engineering has always taken security needs into
16 consideration. From an engineering and growth planning perspective, however,
17 Verizon’s proposal would have important implications for AT&T’s ability to serve its
18 customers. In addition to the problems discussed above with respect to virtual
19 collocation, AT&T has concerns with other several other aspects of Verizon’s proposal.

1 **Q. ONE ASPECT OF VERIZON'S PROPOSAL WOULD REQUIRE THE**
2 **ESTABLISHMENT OF SEPARATE SPACE INCLUDING SEPARATE**
3 **ENTRANCES AND OR PATHWAYS TO COLLOCATORS' EQUIPMENT,**
4 **WHICH WOULD BE SEGREGATED FROM VERIZON'S EQUIPMENT. CAN**
5 **YOU COMMENT ON THIS?**

6 **A.** Yes. As noted in the above, the FCC rules allow ILECs to implement only reasonable
7 security arrangements to protect its equipment and ensure network reliability. As noted
8 previously, Verizon's current security measures, when implemented properly, adequately
9 address the central office security risks. Any additional measures, especially ones with
10 implications as onerous as those proposed by Verizon, are not reasonable and therefore
11 should be rejected.

12 In addition, we are advised by counsel that any proposal for space separation must
13 meet more stringent requirements under the FCC's regulations than other security
14 arrangements. Specifically, the FCC rules indicate that restricting physical collocation to
15 space separated from the space housing ILEC equipment must meet several conditions.
16 Among other requirements, physical separation must be warranted by legitimate security
17 concerns or operational constraints unrelated to the ILEC's competitive concerns.
18 Verizon has not suggested that its proposal is associated with any operational constraints
19 and, as demonstrated above, security concerns do not warrant any separation measures.

20 In addition, the FCC rules indicate that any construction of separate entrances
21 must be technically feasible; must be related to legitimate security concerns or
22 operational constraints; and must not artificially delay collocation provisioning or
23 materially increase the requesting carriers costs. Since Verizon's proposal does not
24 address any of the FCC's separation requirements, it has also not demonstrated that its
25 proposal is consistent with FCC regulations.

1 **Q. YOU MENTIONED THAT THESE SEPARATION REQUIREMENTS WOULD**
2 **HAVE ONEROUS IMPLICATIONS. CAN YOU EXPLAIN HOW THESE**
3 **SEPARATION PROPOSALS WOULD IMPACT AT&T'S NETWORK**
4 **OPERATIONS?**

5 A. Verizon's proposal would be very difficult and costly to implement and would ultimately
6 reduce the amount of space available to CLECs for collocation in Verizon central offices.
7 It has generally been Verizon's policy to designate specific areas in central offices as
8 available to CLECs for collocation. In this respect, most CLEC equipment is already
9 located in the same general area of a central office. However, the reconfiguration and
10 necessary construction in each Verizon central office to allow for separate entrances and
11 pathways is not likely to be feasible in many instances due to zoning, set back and other
12 municipal regulations.

13 Verizon's proposal would most likely require CLECs to relocate their facilities
14 and cages within Verizon central offices. This relocation process would be extremely
15 costly and disruptive. For example, in order to relocate a CLEC's facilities without
16 service disruption, it would be necessary to install parallel facilities in the new location,
17 test those new facilities, and then migrate the CLEC's customers to those new facilities.
18 This complex process requires significant labor and precise coordination and execution in
19 order to avoid customer disruptions. Moreover, despite best efforts, it is more likely than
20 not that customers will be affected and CLECs could lose customers as a result of the
21 inevitable disruptions.

22 In addition, the migration process results in stranded investment in the old
23 equipment in the abandoned collocation areas that would no longer be used. In addition
24 to the investment being stranded, this actual equipment would also have to be removed.
25 Clearly, the minimal amount of additional security provided by facility separation would

1 not be worth the man-hours, costs, and customer disruption associated with such
2 conversions.

3
4 **Q. VERIZON ALSO PROPOSES THE RELOCATION OF EXISTING UNSECURED**
5 **CAGELESS COLLOCATION ARRANGEMENTS TO SEGREGATED AREAS**
6 **OF CENTRAL OFFICES, OR THE CONVERSION OF THE ARRANGEMENTS**
7 **TO VIRTUAL COLLOCATIONS WHERE SECURED SPACE IS**
8 **UNAVAILABLE. IS THIS PROPOSAL WORKABLE?**

9 **A.** No, for the reasons discussed previously, it is not. The relocation problems described
10 above, such as frequent service disruptions and burdensome costs would exist here, as
11 well. Whether the environment is one of physical collocation or cageless collocation, the
12 problems and costs associated with a mass relocation of facilities will have a significant
13 impact on CLECs' operations and services. Verizon's proposal for the conversion of
14 cageless collocations to virtual is also unacceptable for the same reasons described in the
15 earlier testimony concerning Verizon's proposed "high risk" central offices.

16
17 **Q. VERIZON ALSO PROPOSES THAT CLEC ACCESS TO "SHARED**
18 **FACILITIES," SUCH AS LOADING DOCKS, STAGING AREAS, AND**
19 **RESTROOMS BE RESTRICTED OR LIMITED BY PARTITIONING VERIZON**
20 **EQUIPMENT OR BY REQUIRING ESCORTS AT CLEC EXPENSE. DOES**
21 **AT&T AGREE WITH THIS ASPECT OF THE PROPOSAL?**

22 **A.** Once again, it is AT&T's opinion that such measures are not necessary to address
23 security concerns at central offices. Verizon's current measures, when implemented
24 properly, are adequate and effective to address the existing level of risk. Should Verizon
25 want to implement the additional measures it proposes, however, it should assume the
26 cost of those measures. The cost of erecting partitions to sequester Verizon's own
27 equipment should be borne solely by Verizon since its policies would be the sole cause of
28 that cost.

1 Verizon's assumption of this expense is also consistent with FCC rules that
2 provide that CLECs need only pay for the least expensive, effective, and reasonable
3 security option that is viable for the space assigned. *See* 47 C.F.R. 51.323(i). Since
4 Verizon's proposed partitioning is not reasonably required, and is not the least expensive,
5 yet effective security option, CLECs should not be required to pay for them under FCC
6 regulations.

7 Verizon's partitioning of its own equipment would not, like Verizon's other
8 proposals, adversely affect CLEC's operations and therefore AT&T does not oppose such
9 measures, so long as Verizon assumes the concomitant expenses.

10
11 **Q. PLEASE COMMENT UPON VERIZON'S PROPOSAL TO REQUIRE ESCORTS**
12 **IN THE SHARED FACILITIES AREAS.**

13 **A.** AT&T strongly opposes the proposal to require escorts to accompany CLEC technicians
14 to and from "shared facilities." First, requiring escorts is explicitly precluded by FCC
15 rules. The rules state that an ILEC must allow collocating parties to access their
16 collocated equipment 24 hours a day, 7 days a week without requiring either a security
17 escort of any kind or delaying a competitor's entry into the ILECs premises. *See* 47
18 C.F.R. 51.323(i). Verizon's proposal can result in both restricted access for CLECs to
19 their own equipment as well as a general delayed entry into parts of the ILEC premise.

20 Moreover, escorts are impracticable since they result in both increased costs and
21 delay associated with arranging an escort meeting. Consequently, AT&T's installation
22 and repair metrics would be adversely impacted by this proposal.

1 **Q. VERIZON HAS PROPOSED THAT EITHER VIRTUAL COLLOCATION OR**
2 **ESCORTS BE REQUIRED AT REMOTE TERMINAL (RT) SITES. DO YOU**
3 **AGREE?**

4 A. No. Again, escorts are not necessary from the standpoint of security, nor are they
5 permissible under current FCC rules. Additionally, for the reasons discussed at some
6 length above, CLECs cannot not be forced into virtual collocation arrangements unless
7 there are space or technical limitations. This rule applies both to Verizon's central
8 offices as well as remote terminals. The FCC has found that the obligation to provide
9 physical collocation at ILEC "premises" extends to not only central offices but to
10 "serving wire centers, tandem offices as well as all buildings or similar structures owned
11 or leased by the incumbent LEC that house LEC network facilities" and "any structures
12 that house LEC network facilities on public rights of way, such as vaults containing loop
13 concentrators or similar structures." *FCC's First Local Competition Order* at ¶ 573.
14 Remote Terminals clearly fall within this broad definition.

15 Moreover, remote terminals generally house a very small fraction of the
16 equipment that is found in a central office. Thus, imposing an escort requirement on
17 these types of premises is completely unsupportable. This aspect of Verizon's proposal
18 appears to be more of an attempt to inhibit competition rather than a serious effort to
19 improve security.

20 **Q. IS THERE ANY WAY THAT THE DEPARTMENT CAN DETERMINE**
21 **WHETHER VERIZON'S PROPOSAL REFLECTS ANY REASONABLE**
22 **WEIGHING OF COSTS AND BENEFITS?**

23 A. Perhaps one way to think about the problem is to consider whether Verizon would
24 propose such draconian and costly methods for solving relatively low level security risks
25 if it had to bear all, or even its fair share of the costs. Indeed, if the Department were to
26 make clear that all carriers have a joint interest in ensuring that the network is secure and,

1 therefore, that all carriers must share the cost responsibility in ratable manner reflecting
2 their respective shares of telephone lines, Verizon's proposal might then reflect the sort
3 of rational weighing of costs and benefits that must be done in order to come up with the
4 right result. As long as Verizon, or indeed any carrier, can offer a security "wish list"
5 without a need to balance other considerations, it is unlikely that it will provide a
6 reasoned approach to the problem. This is especially true in this case, where Verizon
7 proposes to impose all of the costs associated with its new security measures upon its
8 competitors.

9 **VI. CONCLUSIONS AND RECOMMENDATIONS.**

10 **Q. ARE THE COSTS ASSOCIATED WITH VERIZON'S PROPOSED**
11 **COLLOCATION RULE CHANGES WARRANTED TO ADDRESS THE**
12 **SECURITY RISKS IDENTIFIED, IN LIGHT OF THE ALTERNATIVE**
13 **SECURITY MEASURES DESCRIBED?**

14 **A.** It is very difficult to reach a final conclusion when Verizon has not specified precisely
15 what it is proposing and therefore has not provided any estimate of the costs.
16 Nevertheless, AT&T is confident that it makes little sense for the Department to adopt
17 the costly and disruptive collocation measures proposed by Verizon. This is true because
18 of the comparatively low level of risk of physical attack – a cyber or electronic attack
19 remains the most likely mode of terrorism upon Massachusetts' telecommunications
20 network. This is also true because of the demonstrated success of the security measures
21 currently employed by AT&T. It would make little sense to adopt costly and disruptive
22 collocation measures that would likely have little, if any incremental benefit.

1 **Q. WHAT IS THE BASIC UNDERLYING PROBLEM WITH THE WAY THAT**
2 **VERIZON HAS CONCEIVED THE PROBLEM?**

3 **A.** Verizon simply assumes that access by only one company is necessary to achieve
4 security – a convenient assumption when the one company with access is the dominant
5 competitor in the market that can then restrict, preclude or make prohibitively expensive
6 the access of all its rivals from their own equipment. Imagine if the dominant carrier at a
7 major international airport were able to prevent all the other carriers from sharing use of
8 the airport’s facilities..

9 A major airport, in fact, is a useful counter-example. At an airport, the number of
10 competing airlines and contractors with a need for access to equipment and facilities
11 greatly exceeds the number of CLECs that might collocate at a Verizon central office.
12 Concessions stands, restaurants, baggage handlers, news stands, catering companies
13 delivering food to the airliners, ticket agents, and persons responsible for cleaning planes
14 are just a few of the businesses and operational groups needing access to potentially
15 sensitive areas at an airport. Obviously, no one suggests that the dominant airline – and
16 no other company – should dictate the terms under which its competitors should have
17 access to airport facilities. Moreover, given the substantially greater stake of airlines in
18 security at airports, it would untenable for a dominant airline to impose greater
19 restrictions upon its competitor’s access to terminal facilities than would be imposed
20 upon third parties with considerably smaller investments at potential risk. Clearly, the
21 better approach is to recognize the common interest in optimizing security for all who
22 share use of the airport. From this perspective, the key to security is good screening and
23 tracking of the employees of all individuals whose employment requires them to be in
24 secure portions of the airport. If such an approach is used at major airports, where the

1 potential for terrorists attack and the potential consequences are much greater than in a
2 Verizon central office, there is no reason why such an approach cannot be adopted to
3 protect Massachusetts' telecommunications network.
4

5 **Q: PLEASE SUMMARIZE YOUR RECOMMENDATIONS.**

6 **A:** We have four recommendations.

7 First, all telephone companies have a common stake in the security of the public
8 telephone network from the risks of intentional, negligent, and accidental harm.
9 Addressing these risks involves an analysis in which the magnitude of specific potential
10 losses is weighed against the cost and likelihood of benefit of means to reducing the risks
11 of such losses. Verizon's testimony does not appear to address the new risks of
12 intentional harm made plain by the events of September 11, let alone weigh the costs of
13 minimizing such risks against the possible benefits of such measures. Instead, Verizon's
14 testimony appears to focus very narrowly upon the possible harm that may occur due to
15 the presence of CLEC representatives in Verizon's central offices. Further, the harm
16 discussed in the Verizon testimony appears to primarily address negligent and accidental
17 harm that may be caused by such representatives. Verizon has not shown what the costs
18 of its proposal would be, or whether the benefits of its proposal in terms of reduced risks
19 would be worth the direct costs. Moreover, Verizon's proposal fails to address the fact
20 that physical collocation provides considerable benefits to Massachusetts by making
21 facilities-based competition more feasible and economic. Verizon's proposal would
22 result in considerable harm to competition and the economy of Massachusetts. This real
23 harm to the Commonwealth would exceed by far the theoretical risks that Verizon's
24 panel has addressed. Thus, Verizon's proposal should be rejected by the Department.

1 Second, the presence of individuals in collocation central offices necessarily
2 exposes all carriers with facilities in those locations to the risk that unqualified or
3 unauthorized individuals may deliberately, negligently, or accidentally damage their
4 facilities. The best means of confronting this risk is to adopt and implement a security
5 system which, in a uniform and non-discriminatory manner, sets minimum standards of
6 training, security clearance, and access protocols for anyone who seeks access to facilities
7 in those central offices. These standards should be applicable, without any exception, to
8 all carriers and there must be assurance that breaches of those standards will be detected
9 promptly and reliably subject to financial and non-financial penalties. To the extent that
10 the Department discovers that current procedures do not effectively create such uniform
11 and non-discriminatory standards, it should explore the improvement of industry
12 procedures in this proceeding.

13 Third, AT&T has a well-developed system for maintaining the security of its
14 network facilities. Verizon's security system, and those of other carriers, may differ both
15 from AT&T's and each others. All carriers and the public would benefit from the carriers
16 sharing their practices in an effort to identify "best practices" that can be used at
17 Verizon's collocation central offices to protect against terrorist and other harms to the
18 facilities located at those offices. In analyzing these practices, the carriers'
19 representatives should also consider the opinions of terrorism and law enforcement
20 experts. Clearly, the best method of facilitating this type of productive exchange would
21 be through the establishment of the industry task force that AT&T and other CLECs have
22 already proposed to the Department

1 Fourth, the Department should eschew “change for change’s sake.” All changes
2 of practices have cost to Verizon, its competitors, or both, that inevitably will flow
3 through to customers. The Department should take into the account the likely benefit to
4 the overall security of the public telephone network of any change against the cost that
5 such a change will entail. If a change is deemed to be needed, it should be one which is
6 best tailored to most effectively and affordably meet an identified risk in a competitively
7 neutral manner. The Department must make measured and studied decisions concerning
8 collocation security in order to insure that other critical telecommunications policy goals
9 are not forfeited.

10
11 **Q. DOES THAT CONCLUDE YOUR TESTIMONY?**

12 **A.** Yes.

Attachment A (Proprietary Information)

Attachment B